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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/523,759	02/08/2005	Yoshio Miyazawa	448563/0271	7552

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EXAMINER

VO, ANH T N

ART UNIT	PAPER NUMBER
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2861

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/12/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/523,759

Applicant(s)

MIYAZAWA ET AL.

Examiner

Anh T.N. Vo

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-6, 8, 10 and 13-15 is/are rejected.
- 7) ☐ Claim(s) 7, 9, 11, 12, and 16-18 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>02/08/2005</u> . | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

The references cited on PTO 1449 have been considered.

Claim Objection

Claim 1 is objected to because it does not clearly recite preamble and body language. Appropriate correction is required.

Claims 1, 8 and 10 are objected to because of the word "it" should be deleted, as the term "it" is indefinite and it is not understood the limitation " position correction means" as recited in claims 1, 10 and 14 where it comes from. Also it is not understood what the predetermined range is and how it is relative to the bag main body" as recited in claim 14. Appropriate correction is required.

Claim Rejections

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this

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subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-6, 8, 10, and 13-15 are rejected under 35 USC 102 (e) as being anticipated by Ishizawa et al. (US Pat. 6,834,945).

Ishizawa et al. disclose in Figures 1-2, 9-13, 15-16B and 29-30 an ink jet recording apparatus comprising:

- a liquid storage bag (24) wherein a flexible bag main body (24b) is provided with a liquid supply port (71) and a cartridge case (9) is placed in an apparatus main unit (an ink jet recording apparatus) with said liquid storage bag (24) housed in the cartridge case (9), whereby liquid in the bag main body is supplied through the liquid supply port (71) to a liquid ejection head (6) of the apparatus main unit, characterized in that storage means (107) for storing data concerning liquid is provided in a part of the bag main body, that an interface section (92) for making it possible to transfer data between a data transfer section (106) placed in a part of the cartridge case (9) or the apparatus main unit and the storage means (107) is provided in a part of the bag main body, and that position correction means (91) capable of correcting the position of the interface section (92) to establish data transfer through the interface section with the bag main body housed in the cartridge case (9) is provided (Figures 2, 9, 11-12 and 16A-16B);
- wherein the position correction means (91) has a structure wherein an attachment member (90) formed with the interface section (92) is attached to a part of the bag main body and can be displaced relatively to the bag main body (Figure 12);
- wherein the attachment member (90) is provided with a positioning part for setting the relative position between the cartridge case (9) and the attachment member (90) as the positioning part engages a part of the cartridge case (9) (Figures 12 and 29);
- wherein the interface section (92) is placed in the proximity of an end part of the bag main body (Figures 12 and 29);
- wherein the interface section (92) is placed in a hermetical seal superposition portion of the sheet material forming the bag main body (Figures 12 and 29);
- wherein the interface section is placed in the proximity of the liquid supply port.
- wherein the interface section (92) comprises a contact for making it possible to transfer data to

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and from the data transfer section (106) by electric conduction (Figures 12 and 29);

- wherein the data transfer section (106) is placed in the cartridge case (9) (Figure 12); and
- wherein the interface section (92) includes a plurality of connection electrodes (not shown).

Citation of Pertinent Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. These prior art references (US Pat. 6,130,695; US Pat. 6,938,976; US Pat. 7,048,348) cited in the PTO 892 form an ink cartridge which is deemed to be relevant to the present invention. These references should be reviewed.

Allowable Subject Matter

Claim 7 would be allowable if rewritten to include all of the limitations of the base claim and any intervening claims. This claim would be allowable because the prior art references of record fail to teach or suggest a liquid storage bag using in a liquid ejection apparatus comprising an attachment member that includes a first attachment member formed with the interface section and provided with the positioning part and a second attachment member passing through a through hole made in the hermetical seal superposition portion of the bag main body for attaching the first attachment member to the hermetical seal superposition portion and the thickness of a passage member of the second attachment member passing through the through hole is set smaller than the size of the through hole in the combination as claimed.

Claim 9 would be allowable if rewritten to include all of the limitations of the base claim and any intervening claims. This claim would be allowable because the prior art references of record fail to teach or suggest a liquid storage bag using in a liquid ejection apparatus comprising an interface section that makes storage means possible to transfer data to and from the data transfer section in a noncontact manner in the combination as claimed.

Claims 11-12 would be allowable if rewritten to include all of the limitations of the base claim and any intervening claims. These claims would be allowable because the prior art references of record fail to teach or suggest a liquid storage bag using in a liquid ejection apparatus comprising a press member that maintains the positioning state of the interface section and the data transfer section is provided in the combination as claimed.


Claim 16 would be allowable if rewritten to include all of the limitations of the base claim and any intervening claims. This claim would be allowable because the prior art references of record fail to teach or suggest a liquid storage bag using in a liquid ejection apparatus comprising an interface section that includes an antenna for conducting communications in a noncontact manner in the combination as claimed.

Claims 17-18 would be allowable if rewritten to include all of the limitations of the base claim and any intervening claims. These claims would be allowable because the prior art references of record fail to teach or suggest a liquid storage bag using in a liquid ejection apparatus comprising an attachment member, implementing the position correction means, that installs a circuit board, implementing the storage means, formed with an electrode on the surface and provided with storage section on the back and is attached movably in a predetermined range relative to the bag main body in the combination as claimed.

CONCLUSION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Anh Vo whose telephone number is (571) 272-2262. The examiner can normally be reached on Tuesday to Friday from 9:00 A.M. to 7:00 P.M..

The fax number of this Group 2861 is (571) 273-8300.


ANH T. N. VO
PRIMARY EXAMINER
01/05/07